

# Daniel Chou

## FULL-STACK SOFTWARE ENGINEER

New York City, NY (347) 226-1999

<https://github.com/devdanchou>

<http://www.linkedin.com/in/danielchou218>

[daniel.cw.chou@gmail.com](mailto:daniel.cw.chou@gmail.com)

### TECHNICAL SKILLS

**Languages** – JavaScript (ES5, ES6), Python, SQL, HTML, CSS, TypeScript

**Frameworks/Tools** – Node, Express, React, Flask, Jinja, Bootstrap, PostgreSQL, SQLAlchemy, MongoDB, Git, GitHub, Django, jQuery

**Testing** – Jest, React Testing Library, Coverage.py, Jasmine, unittest, PyTest

### SOFTWARE ENGINEERING EXPERIENCE

#### Rithm SIS | Full Stack Software Engineer Intern

Sept 2023 – Oct 2023

- Built new features, conducted research, and debugged the Student Information System, a live-production Django codebase with over > 80,000 lines of code.
- Wrote unit and integration tests with factories while maintaining >95% test coverage throughout the development phase.
- Designed and built a blogging feature for students and staff to create and post blogs on the SIS website.
- Collaborated using agile methodologies to deliver new features successfully, participating in daily stand-ups, story-pointing tickets and completing week-long sprints.
- Presented technical topics and walkthroughs, including the MVC (Model-View-Controller) pattern, to staff and classmates.

### TECHNICAL PROJECTS

#### Warbler | Flask, PostgreSQL, SQLAlchemy | [GitHub](#) | [Demo](#)

- Replicated social media app with user authentication and authorization functionalities, implementing secure session management and B-crypt password hashing in the Flask backend.
- Utilized the SQLAlchemy ORM to leverage object-oriented programming methods, enabling users to post/like messages, follow other users, and view a feed of messages from their followers.

#### Jobly | Express.js, React, PostgreSQL | [GitHub](#)

- Designed single-page job application site with authentication and authorization features implemented using JWT in the Express backend and secured routes in the React frontend.
- Built RESTful API in Node/Express that enables users to create listings for companies and jobs, with administrative privileges for admins.

### ADDITIONAL WORK EXPERIENCE

#### Lamont Financial Services Corporation

2021 – 2023

Associate, Municipal Fixed-Income

- Conducted quantitative analysis, debt modeling, and credit research to assist issuer clients in making capital structure recommendations, providing market guidance, and offering bond pricing advice.
- Collaborated with senior advisors to create presentation materials by compiling and interpreting historical financial data and economic projections to communicate key findings and tailored proposals.

#### New York State Homes and Community Renewal

2019 – 2021

Debt Issuance Analyst

- Managed various phases of the debt financing process for the agency's \$2.1 billion annual multi-family and single-family housing bond programs, including preparing official statements, conducting project cash flow analysis, obtaining credit ratings, and reviewing closing documents to ensure timely completion.

### EDUCATION

#### Rithm School – Full-Stack Engineering Program

2023

- 17-week program based in San Francisco with a focus on JavaScript, Python, Flask/Express/React frameworks and relational database management.

#### Baruch College, New York, NY – B.B.A. in Finance

2016